

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583788

Luminaire Tested: **HCC8W10D010MW-HM80520930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010MW-HM80520930-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

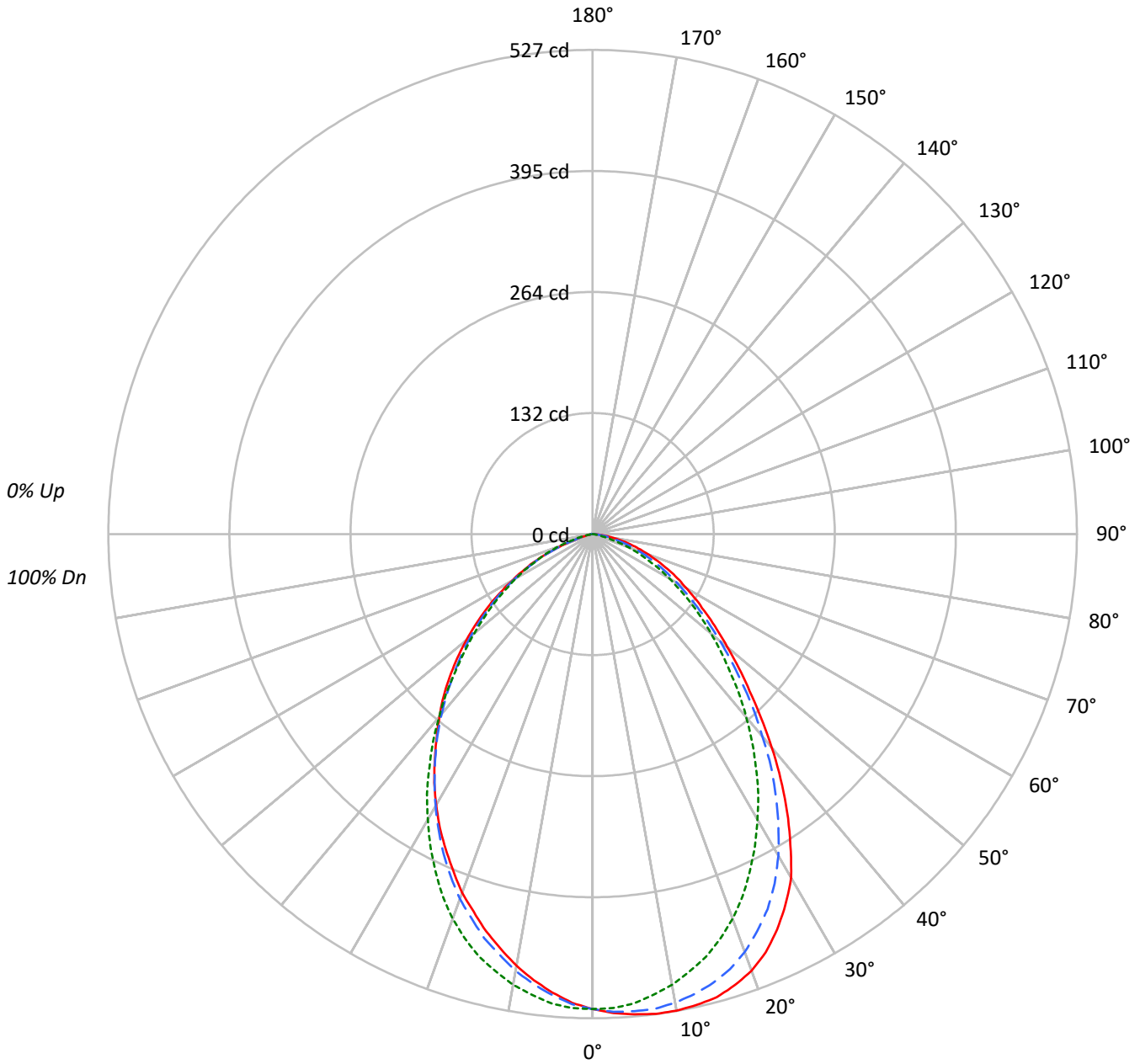
Lumens per Lamp: N/A
Luminaire Lumens: 969.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583788
CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P583788

CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15942	15942	15942
5°	16242	15873	15505
10°	16492	15597	14939
15°	16661	15209	14289
20°	16598	14619	13631
25°	16158	13773	12871
30°	15389	12772	12121
35°	13894	11655	11259
40°	12209	10462	10434
45°	10540	9193	9594
50°	9172	8069	8602
55°	8134	7005	7494
60°	7259	5914	6217
65°	6545	4808	4903
70°	5806	3597	2903
75°	5016	2085	1251
80°	3871	746	355
85°	2477	248	248



TEST NUMBER: P583788
 CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	5.0
10°-20°	135.1	13.9
20°-30°	191.1	19.7
30°-40°	201.3	20.8
40°-50°	171.1	17.7
50°-60°	123.2	12.7
60°-70°	71.1	7.3
70°-80°	24.3	2.5
80°-90°	3.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	374.7	38.7
0°-40°	576.1	59.4
0°-60°	870.4	89.8
0°-90°	969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	517	517	517	517	517	
5°	525	521	513	504	501	50
15°	522	506	476	455	448	147
25°	475	450	405	384	378	218
35°	369	348	310	298	299	230
45°	242	230	211	212	220	188
55°	151	139	130	135	139	136
65°	90	77	66	64	67	89
75°	42	32	18	11	10	44
85°	7	4	1	1	1	9
90°	0	0	0	0	0	



TEST NUMBER: P583788

CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0
2.5°	521.9	522.6	521.9	521.9	521.2	520.5	519.7	519.0	517.7	516.3	516.3
5°	524.7	526.1	524.7	524.7	522.6	521.2	519.7	517.7	514.8	512.8	512.8
7.5°	526.7	526.7	526.7	524.7	523.2	521.2	517.7	514.2	510.6	507.1	505.8
10°	526.7	526.7	526.1	523.2	521.9	517.7	514.2	509.3	504.4	499.4	498.1
12.5°	524.7	525.4	524.0	521.2	517.7	512.8	507.8	501.6	495.9	490.3	487.5
15°	521.9	521.2	519.7	516.3	512.1	505.8	500.9	493.9	486.1	479.1	476.4
17.5°	514.8	514.8	512.8	509.3	503.6	496.7	489.0	481.3	472.9	465.2	461.7
20°	505.8	505.8	502.9	498.7	493.2	484.0	475.6	466.5	456.8	449.1	445.5
22.5°	492.5	493.2	489.7	484.8	478.4	467.9	459.5	448.3	438.5	429.4	426.6
25°	474.9	476.4	472.9	467.9	459.5	450.4	439.9	429.4	418.2	409.0	404.8
27.5°	454.6	455.3	451.8	446.9	438.5	428.8	418.2	407.0	396.5	386.7	382.5
30°	432.2	429.4	428.0	421.7	412.6	404.2	392.3	383.2	372.0	363.6	358.7
32.5°	400.6	402.1	397.9	392.9	386.0	376.2	366.4	355.9	345.3	339.1	335.6
35°	369.1	370.6	368.4	363.6	355.9	347.5	337.6	329.9	320.8	313.1	309.6
37.5°	336.2	336.2	334.9	332.0	326.5	318.8	308.9	301.2	293.5	287.2	285.1
40°	303.3	301.9	301.2	299.1	294.2	287.2	280.9	274.5	266.8	262.6	259.9
42.5°	271.1	271.1	269.7	267.6	262.6	259.2	252.9	245.9	240.3	236.1	236.1
45°	241.7	242.3	240.3	238.8	236.1	230.4	224.9	220.0	215.0	212.3	210.8
47.5°	215.8	215.8	213.6	212.3	209.5	204.6	199.7	195.4	192.0	189.8	189.1
50°	191.2	191.2	191.2	187.8	184.3	180.8	177.2	172.4	170.2	168.8	168.2
52.5°	170.2	169.5	169.5	166.7	163.2	159.0	155.5	151.3	149.2	147.8	148.4
55°	151.3	151.3	150.6	147.1	143.6	139.4	135.9	132.3	131.0	129.6	130.3
56°	143.6	143.6	142.9	140.2	135.9	132.3	128.1	124.6	122.6	123.3	123.3
57°	138.0	136.5	136.5	133.1	129.6	124.6	121.2	117.7	116.2	115.6	115.6
58°	131.0	130.3	129.6	126.1	122.6	118.4	114.9	111.4	109.3	109.3	108.5
59°	124.0	124.0	122.6	119.8	116.2	112.0	108.5	105.1	103.0	102.3	102.3
60°	117.7	118.4	116.2	113.5	110.7	105.8	101.6	98.8	96.6	95.9	95.9
61°	112.0	112.0	110.7	107.2	103.7	100.1	95.9	92.4	91.1	89.7	89.7
62°	107.2	105.8	105.1	101.6	98.1	93.9	90.4	86.9	84.7	83.4	84.0
63°	100.8	100.1	98.8	95.9	92.4	88.2	84.0	81.3	79.2	77.0	77.8
64°	95.9	95.3	93.2	90.4	86.9	82.7	78.5	75.6	74.3	72.1	71.4
65°	89.7	88.9	88.2	84.7	81.3	77.0	73.6	70.8	68.6	67.2	65.9
66°	84.0	84.7	83.4	80.5	76.3	72.8	67.9	65.1	63.7	61.7	60.2
67°	79.2	79.2	77.8	75.0	70.8	67.2	63.7	60.2	58.2	56.0	55.3
67.5°	76.3	76.3	75.0	71.4	68.6	64.4	60.9	58.2	55.3	54.0	52.5
68°	73.6	73.6	72.8	70.1	66.6	62.4	58.9	55.3	52.5	50.5	49.8
69°	68.6	69.4	67.9	65.1	61.7	57.5	54.0	51.1	48.3	46.3	44.8
70°	64.4	63.7	62.4	59.5	56.0	53.2	49.8	46.3	43.4	40.6	39.9
71°	58.9	58.9	57.5	55.3	51.8	48.3	44.8	42.1	39.2	35.7	35.0
72°	54.7	54.7	53.2	50.5	47.6	44.1	40.6	37.1	35.0	31.5	30.2
72.5°	51.8	52.5	51.1	48.3	45.6	41.3	38.6	35.7	32.2	29.4	28.0
73°	50.5	49.8	49.0	46.3	42.7	39.9	36.4	33.7	30.2	27.3	26.0



TEST NUMBER: P583788
 CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	31.5	31.5	30.8	28.0	25.2	22.4	19.6	16.8	14.1	11.2	9.9
80°	21.8	22.4	21.0	19.6	17.5	14.7	11.9	9.9	7.0	5.6	4.2
82.5°	14.1	14.1	13.3	11.9	10.5	8.4	7.0	4.9	3.5	2.8	2.0
85°	7.0	7.7	7.0	6.3	4.9	4.2	3.5	2.0	1.4	0.7	0.7
87.5°	2.8	2.8	2.8	2.0	2.0	1.4	0.7	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P583788

CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0
2.5°	514.8	514.8	513.5	512.8	512.1	511.3	510.6	510.0	510.0	510.6
5°	510.6	509.3	506.4	505.8	503.6	502.9	501.6	500.9	501.6	500.9
7.5°	504.4	501.6	498.1	496.7	493.9	492.5	490.3	490.3	489.0	489.7
10°	495.9	491.7	487.5	484.8	482.6	480.6	479.1	477.8	477.1	477.1
12.5°	485.5	480.6	476.4	472.1	468.7	467.2	464.5	464.5	463.0	462.3
15°	473.6	467.2	462.3	458.1	455.3	452.6	450.4	449.1	447.6	447.6
17.5°	458.1	452.6	447.6	442.7	438.5	436.4	434.3	432.2	432.2	430.8
20°	441.3	435.0	430.8	425.9	422.4	418.9	416.1	416.1	414.7	415.4
22.5°	422.4	414.7	410.5	407.0	403.5	400.6	397.9	397.9	397.1	396.5
25°	401.3	395.1	390.2	386.0	383.9	381.0	380.3	379.0	378.3	378.3
27.5°	379.0	374.1	367.8	365.6	362.9	361.4	361.4	360.7	359.4	360.0
30°	355.2	349.5	346.1	344.6	341.8	341.8	341.1	339.7	339.7	340.4
32.5°	332.0	326.5	323.6	323.0	320.1	320.1	319.4	320.1	320.1	320.8
35°	306.9	301.9	301.2	299.1	298.5	298.5	298.5	299.8	301.2	299.1
37.5°	283.0	279.5	277.4	276.7	277.4	277.4	278.1	280.2	279.5	278.7
40°	258.4	255.7	254.2	254.2	255.7	257.1	257.1	259.2	259.9	259.2
42.5°	233.9	231.9	231.9	232.6	233.9	234.6	236.8	238.8	239.6	240.3
45°	210.8	210.8	210.8	211.6	212.3	213.6	216.5	218.5	219.2	220.0
47.5°	188.5	187.8	189.8	190.5	192.7	193.3	195.4	198.2	198.9	199.7
50°	167.4	168.8	169.5	171.6	173.0	173.0	175.9	177.2	179.3	179.3
52.5°	147.8	149.9	150.6	152.7	153.4	154.1	155.5	157.6	159.0	159.0
55°	130.3	131.0	132.3	133.1	135.2	135.9	137.3	138.0	140.2	139.4
56°	122.6	124.0	124.6	126.1	127.5	128.1	129.6	130.3	131.7	132.3
57°	115.6	116.2	118.4	119.1	120.4	120.4	121.2	123.3	123.3	124.0
58°	108.5	110.0	110.7	111.4	112.7	113.5	114.9	115.6	116.2	115.6
59°	102.3	103.0	103.7	103.7	105.1	105.1	107.2	108.5	109.3	109.3
60°	95.9	95.9	96.6	97.4	98.8	99.5	99.5	100.8	100.8	100.8
61°	89.7	89.7	90.4	91.1	91.7	91.7	93.2	93.2	93.9	94.6
62°	84.0	83.4	83.4	84.0	84.0	85.5	86.2	86.9	87.5	86.9
63°	77.8	77.0	77.0	77.0	77.0	78.5	78.5	79.2	80.5	79.8
64°	70.8	70.8	70.8	70.8	71.4	71.4	72.8	73.6	74.3	75.0
65°	65.9	64.4	63.7	63.7	64.4	65.1	65.9	66.6	67.2	67.2
66°	60.2	58.9	58.2	58.2	58.2	58.2	59.5	59.5	60.9	60.9
67°	54.0	52.5	51.8	51.1	51.1	51.1	53.2	52.5	52.5	52.5
67.5°	51.8	49.8	49.0	48.3	47.6	49.0	48.3	49.0	49.0	48.3
68°	49.0	47.6	46.3	44.8	44.8	44.8	45.6	46.3	45.6	44.8
69°	43.4	42.7	40.6	39.2	38.6	39.2	38.6	39.2	38.6	39.2
70°	38.6	36.4	34.4	33.7	32.9	32.9	32.9	32.2	32.9	32.2
71°	33.7	31.5	29.4	28.0	27.3	27.3	26.6	27.3	26.6	27.3
72°	28.7	26.6	23.8	22.4	22.4	22.4	22.4	21.8	22.4	21.8
72.5°	26.6	23.8	21.8	20.3	19.6	19.6	19.6	19.6	18.9	19.6
73°	24.5	21.8	18.9	18.3	18.3	18.3	17.5	16.8	17.5	17.5



TEST NUMBER: P583788
CATALOG NUMBER: HCC8W10D010MW-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	8.4	6.3	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.9
80°	3.5	2.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	45.6	45.6	44.1	42.1	38.6	35.0	32.2	29.4	26.0	22.4	21.0
75°	42.1	41.3	39.9	37.9	35.0	31.5	28.7	25.2	22.4	18.9	17.5

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



74°	20.3	16.8	15.4	14.1	14.1	14.1	13.3	13.3	13.3	14.1
75°	16.1	13.3	11.9	10.5	11.2	10.5	11.2	10.5	10.5	10.5

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)